APRIL/MAY 2024

23PMB12 — IMMUNOLOGY, IMMUNOMICS AND MICROBIAL GENETICS

Time: Three hours

Maximum: 75 marks

SECTION A — $(10 \times 2 = 20 \text{ marks})$

Answer ALL the questions.

- 1. Define about our Immune system.
- 2. Elaborate APC.
- 3. Explain cell mediated cytotoxicity.
- 4. Recall the Immunoglobulins.
- 5. Give the function of Counter current electrophoresis.

Illustrate the Reverse vaccinology.

Interpret Centromere.

Summarize Nucleosome.

- 9. Simplify the Conjugation.
- 10. What are λ phages?



SECTION B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL the questions.

11. (a) Analyse the origin, development and differentiation of T-lymphocytes.

Or

- (b) Organize about the Acquired immunity.
- 12. (a) Construct the classical pathway of complement system.

Or

- (b) Show about the DTH response in humans.
- 13. (a) Discuss about the tumor immunity.

Or

- (b) Distinguish the types of vaccines.
- 14. (a) Identify structure of Chromatin.

Or

- (b) Assume the process of Phosphorylation.
- 15. (a) Justify the natural competence of bacteria.
 Or
 - (b) Explain the model of transposition mechanism.

Answer any THREE questions.

- 16. Extend information of MHC genes and about the production.
- 17. Compile the theory of antibody production.
- 18. Estimate about the hypersensitivity types and its mechanisms.
- 19. Determine the eukaryotic genome's structure and properties.
- 20. Recommend the theory of generalized transduction.

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